

# Work Order ID 73797

Thursday, September 15, 2011 11:12:59 AM



Page 1

Item ID: D3183-5

Accept



Setup Start



Revision ID:

Stop



Item Name: Bearing

Start Date: 9/15/2011 Start Qty: 40.00



Cust Item ID:

Required Date: 9/21/2011 Req'd Qty: 40.00



Customer:

Reference:

Run Start



Approvals:

Process Plan:

*[Signature]*

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3183

Rev C1

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 148961 ☐ Bearing as per Dwg D3183 ☐ Single row, deep groove, Conrad type, shielded ☐ Possible Supplier: NSK P/N 6800ZZ ☐ Certificate of conformity note is required

*11-09-15*

*(H0)*

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

*11/9/11*

*(H0)*

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

*S. W. 10/12*

*Counting*

*(x40)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

[illegible]

Thursday, September 15, 2011 11:13:00 AM

**Accept**

[illegible]**Setup Start**

**Stop**

1. The first group of respondents was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The second group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The third group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The fourth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The fifth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The sixth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The seventh group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The eighth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The ninth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago. The tenth group was composed of 100 individuals who were randomly selected from the telephone book of the city of Chicago.

**Cust Item ID:****Required Date: 9/21/2011      Req'd Qty: 40.00**[illegible]

**Customer:**

**Reference:**

Run Start

**Approvals:**      **Process Plan:** \_\_\_\_\_      **Date:** \_\_\_\_\_      **Tooling:** \_\_\_\_\_      **Date:** \_\_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

**Stop**

[illegible]

### Set Up/ Run Hours

**Tool ID****Tool #****Plan  
Code**

**Accept  
Qty**

Reject  
Qty

### Reject Number

**Insp.  
Stamp**

130

Identify as per dwg & Stock Location: 234

0.00

[illegible]

### Packaging

## Memo

0.00

## Packaging

140

QC21- Final Inspection - Work Order Release

0.00

■■■■■

QC

## Memo

0.00

## Quality Control

11/9/98

400

11/9/20 JJ

11-09-20  
(HO)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Thursday, September 15, 2011 11:12:57 AM

Page 1

Work Order ID: 73797

Parent Item: D3183-5

Parent Item Name: Bearing





Start Date: 9/15/2011

Required Date: 9/21/2011

Start Qty: 40.00

Required Qty: 40.00

Comments: IPP: A□03.03.27□New issue□KJ/RF

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
6800ZZ  Bearing		Purchased	No			100	Each	0.0000	1 	40		9/15/11	(40)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

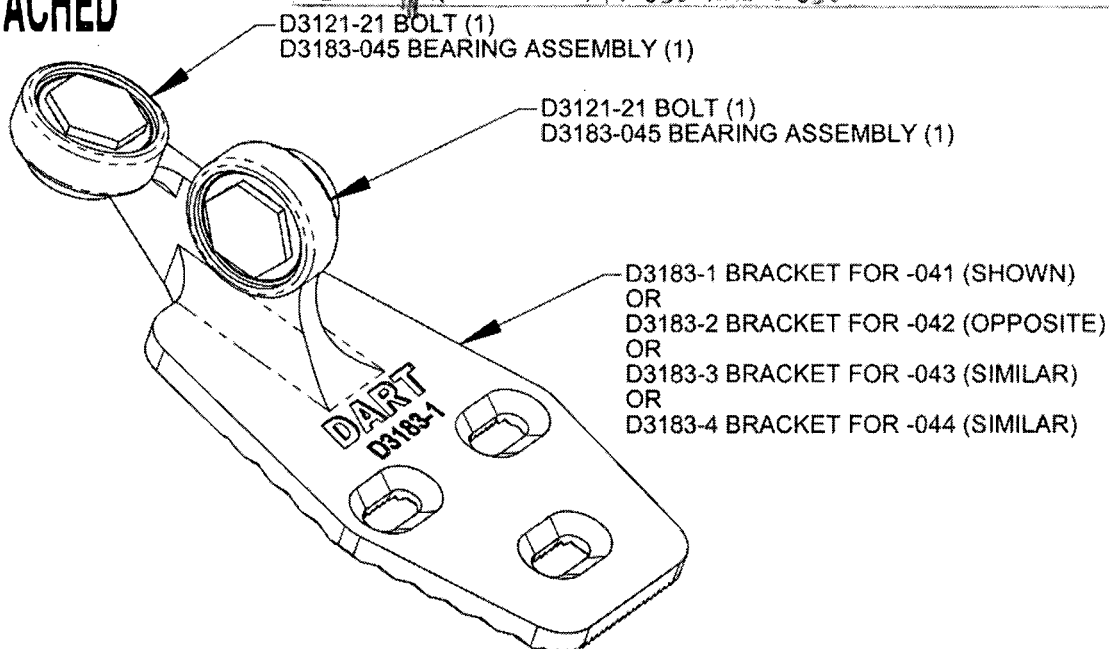
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

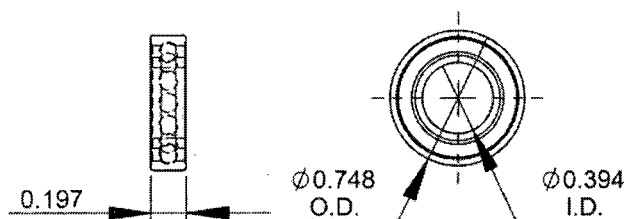


DESIGN #	DRAWN BY UP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED #	APPROVED #	DRAWING NO. <b>D3183</b>	REV. C SHEET 1 OF 4
DATE <b>04.02.17</b>		TITLE <b>BRACKET ASSEMBLY</b>	SCALE 1:1
A	03.01.24	NEW ISSUE	
B	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
C	04.02.17	ADD -045/-9; 0.182 WAS 0.431	
CI	04.11.09	0.830 WAS 0.850	

**RELEASED**  
04.03.01  
**DEO ATTACHED**



**D3183-041 BRACKET ASSEMBLY (SHOWN)**  
**D3183-042 BRACKET ASSEMBLY (OPPOSITE)**  
**D3183-043 BRACKET ASSEMBLY (SIMILAR)**  
**D3183-044 BRACKET ASSEMBLY (SIMILAR)**



**D3183-5 BEARING:**  
**SPECIFICATION CONTROL DRAWING**

- 1) SINGLE ROW, DEEP GROOVE, CONRAD TYPE, SHIELDED
- 2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
- 3) ALL DIMENSIONS ARE IN INCHES



**D3183-7 WASHER**

- 1) MATERIAL: AISI 303 ROUND BAR (M303R)  
ANNEALED
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018  
UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES

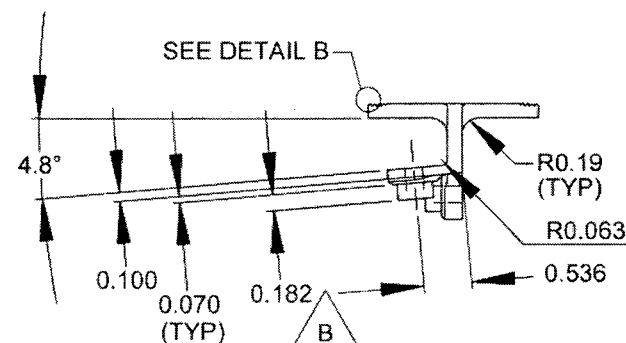
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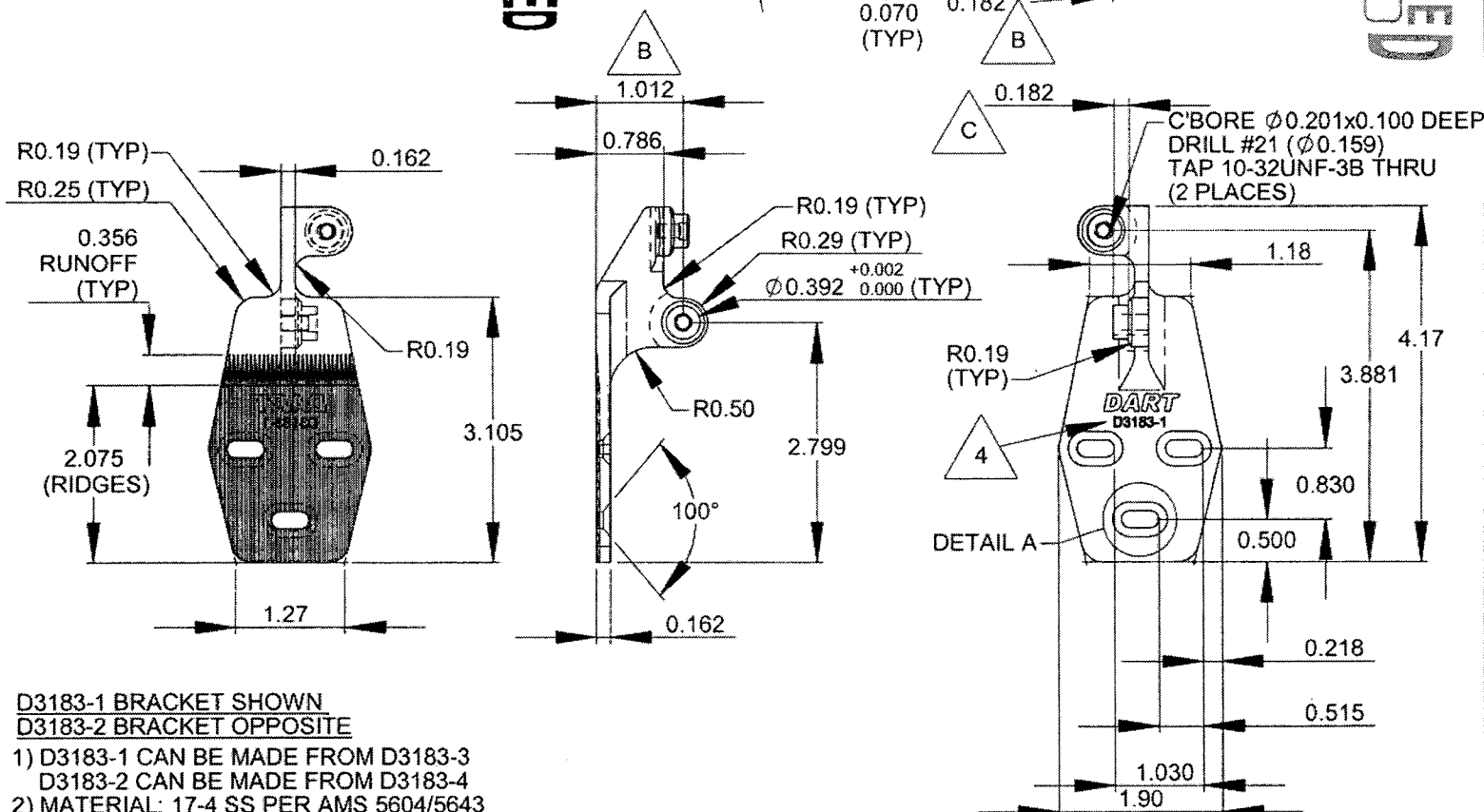


DESIGN	DRAWN BY	DART AEROSPACE LTD
CHECKED	APPROVED	HAWKESBURY, ONTARIO, CANADA
DATE 04.02.17	DRAWING NO. D3183	REV. C
TITLE BRACKET ASSEMBLY	SHEET 2 OF 4	SCALE 1:2

RELEASED  
04.03.01



DEO ATTACHED



**D3183-1 BRACKET SHOWN**  
**D3183-2 BRACKET OPPOSITE**

- 1) D3183-1 CAN BE MADE FROM D3183-3  
D3183-2 CAN BE MADE FROM D3183-4
- 2) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE STRENGTH = 150 ksi  
MIN YIELD STRENGTH = 100 ksi
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 4) ENGRAVE DART P/N & LOGO AS SHOWN
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 6) ALL DIMENSIONS ARE IN INCHES

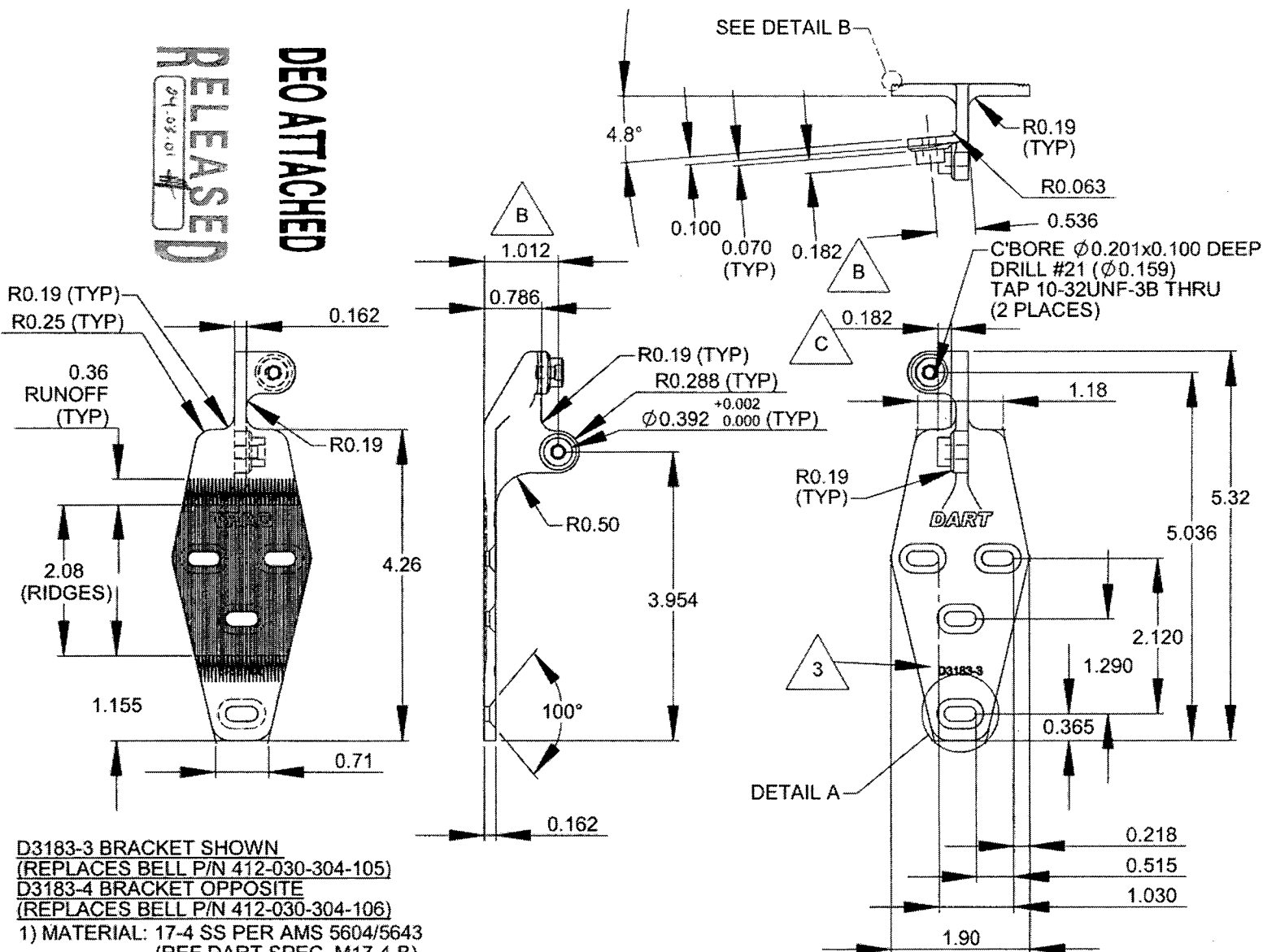
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QA COM  
ISSUED

DESIGN	DRAWN BY	<b>DART AEROSPACE LTD.</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED	APPROVED	DRAWING NO.	REV. C
		D3183	SHEET 3 OF 4
DATE		TITLE	SCALE
04.02.17		BRACKET ASSEMBLY	1:2



**D3183-3 BRACKET SHOWN**  
**(REPLACES BELL P/N 412-030-304-105)**  
**D3183-4 BRACKET OPPOSITE**  
**(REPLACES BELL P/N 412-030-304-106)**

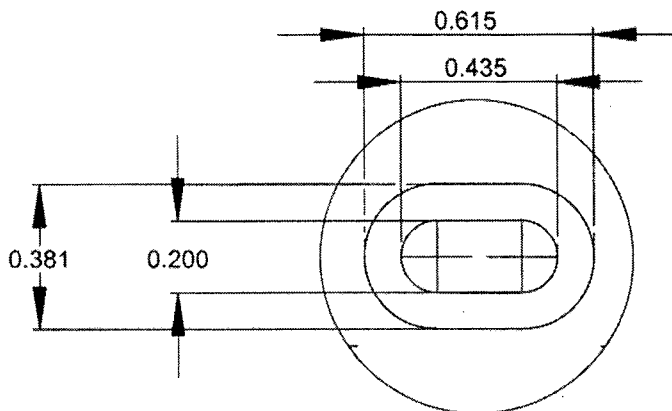
- 1) MATERIAL: 17-4 SS PER AMS 5604/5643  
(REF DART SPEC. M17-4-B)  
MIN ULTIMATE STRENGTH = 150 ksi  
MIN YIELD STRENGTH = 100 ksi
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 3) ENGRAVE DART P/N & LOGO AS SHOWN
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES

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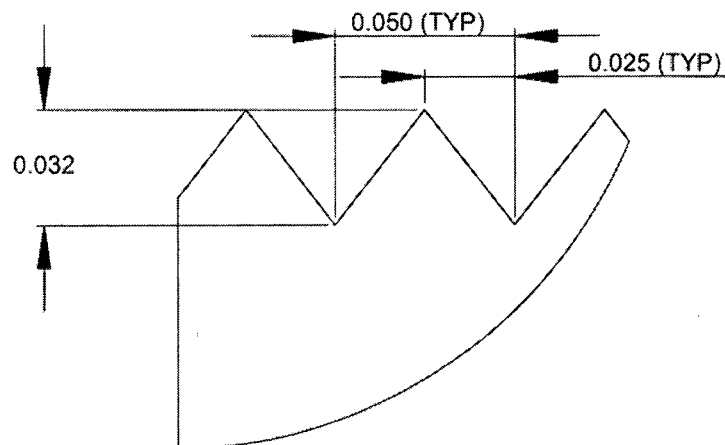
DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. <b>D3183</b>	REV. C SHEET 4 OF 4
DATE <b>04.02.17</b>	TITLE <b>BRACKET ASSEMBLY</b>		SCALE 1:1



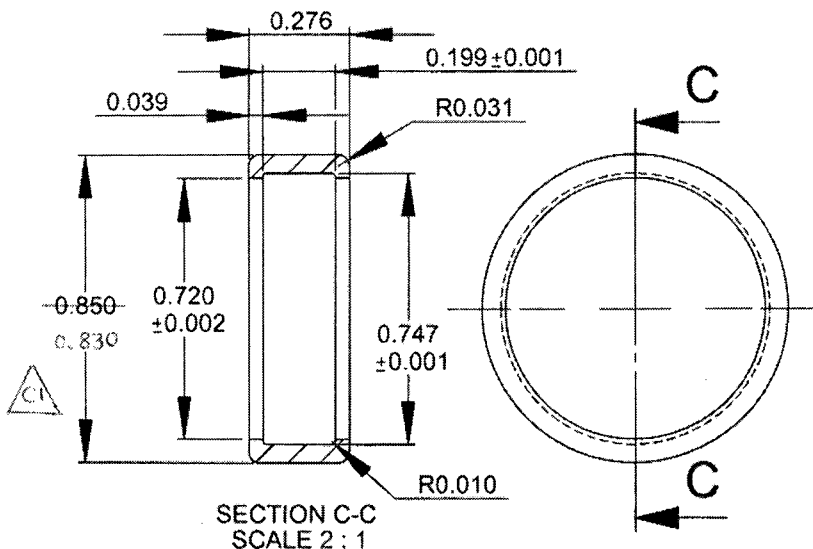
DETAIL A (2 : 1)

RELEASED  
04.03.01

DEO ATTACHED



DETAIL B (20 : 1)



**D3183-9 CAP**

- 1) MATERIAL: DELRIN ROD, Ø1.00  
(REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018  
UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

**D3183-045 BEARING ASSEMBLY**

- 1) ASSEMBLE D3183-5 BEARING AND  
D3183-9 CAP

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QG Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

\*\*\*PO REPRINT\*\*\*

Purchase Order ID PO14894

Purchase Order Date 9/15/2011

PO Print Date 9/15/2011

Page Number 1 of 1

Order From :

VC-MA1001

MAIN INDUSTRIAL SALES LTD.  
1475, TESSIER  
HAWKESBURY, ON K6A 3S6  
CA

Contact Name

Vendor Phone 613 632 3595

Vendor Fax 613 632 0262

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr 10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req. Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	6800ZZ	Bearing	9/16/2011 Yes	40.00 Each	Yours,ppd	\$1.4800	\$59.20
		Special Inst:	As per DWG: D3183 REV: C1 B73797				
PO Total:							\$59.20

Change Nbr: 1

Change Date: 9/15/2011

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

MAIN INDUSTRIAL SALES LTD.

1475 TESSIER ST.  
HAWKESBURY ON K6A 3S6  
Phone: (613) 632-3595 Ext. Fax: (613) 632-0262  
sales@mainindustrialsales.com

Packing Slip

DATE September 15, 2011  
NUMBER 0000147795  
CUSTOMER NO. DART

BILL TO:  
DART AEROSPACE LTD.  
1270 ABERDEEN ST.  
HAWKESBURY ON K6A 1K7

SHIP TO:  
DART AEROSPACE LTD.  
1270 ABERDEEN ST.  
HAWKESBURY ON K6A 1K7

(613) 632-5200 Ext.

(613) 632-5200 Ext.

P.O. NUMBER	SALESPERSON	ORDER DATE	REQ. DATE	ORDER NUMBER
14894	EB	15-Sep-11		0000147795
F.O.B.	SHIP VIA	TERMS		
F.O.B. value	PICK UP	NET 30 DAYS		
PART NUMBER	UOM	QUANTITY		
DESCRIPTION		REQ.	SHIPPED	B.O.
0-68002ZKML <del>BALL BEARING</del>	EA	40	40	

11.09.19  
please return packing slip  
with correct P/N - 6800-ZZ  
NOT 6800ZZ

*Phil Lunde*

**MAIN INDUSTRIAL SALES LTD.**

1475 TESSIER ST.  
 HAWKESBURY ON K6A 3S6  
 Phone: (613) 632-3595 Ext. Fax: (613) 632-0262  
 sales@mainindustrialsales.com

**Packing Slip**

DATE September 15, 2011

NUMBER 0000147795

CUSTOMER NO. DART

**BILL TO:**

DART AEROSPACE LTD.  
 1270 ABERDEEN ST.  
 HAWKESBURY ON K6A 1K7

**SHIP TO:**

DART AEROSPACE LTD.  
 1270 ABERDEEN ST.  
 HAWKESBURY ON K6A 1K7

(613) 632-5200 Ext.

(613) 632-5200 Ext.

P.O. NUMBER	SALESPERSON	ORDER DATE	REQ. DATE	ORDER NUMBER
14894	EB	15-Sep-11		0000147795
F.O.B.	SHIP VIA	TERMS		
F.O.B. value	PICK UP	NET 30 DAYS		
PART NUMBER		UOM	QUANTITY	
DESCRIPTION			REQ.	SHIPPED B.O.
D-68002ZKML BALL BEARING		EA	40	40
<p>YOUR PART #: 68002Z</p> <p><i>Salis</i></p> <p>Thanks. Emc</p>				